WHAT IS CLAIMED IS:

1. A method for controlling a storage device controller;

wherein the controller is connected to a storage device provided with a plurality of storage volumes for storing data respectively and an information processing apparatus for requesting an input/output of the data so as to receive the input/output request and input/output the data to/from each of the plurality of storage volumes;

wherein the method comprises the steps of:

bringing one (source) of the plurality of storage volumes into correspondence with another (destination) in which a copy of data is to be written when the data is written in the source volume so as to form a pair group consisting of a plurality of such pairs of the source volume and the destination volume respectively;

resetting the correspondence between storage volumes of each pair included in the pair group;

deciding whether or not it is after the correspondence is reset that the input/output request is issued from the information processing apparatus; and

executing the input/output processing after resetting the correspondence when the input/output request is issued from the information processing apparatus after the correspondence is reset.

2. A method according to claim 1;

wherein the step of executing the input/output processing after resetting the correspondence when the input/output request is issued from the information processing apparatus after the correspondence is reset is actually a step of deciding whether or not the input/output request is addressed to a storage volume of which correspondence to another is not reset yet and resetting the correspondence before executing the input/output processing if the request is addressed to the storage volume of which correspondence is not reset yet.

3. A method according to claim 1;

wherein identification information for denoting that correspondence between storage volumes of each pair in the pair group is reset is stored in a memory provided in the storage device controller in the step of starting resetting of the correspondence between storage volumes of each pair in the pair group; and

wherein the step of deciding whether or not it is after the correspondence is reset that the input/output request is issued from the information processing apparatus is actually a step of referring to the identification information, then deciding whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus according to the content of the identification information.

4. A method according to claim 1;

wherein a time on which resetting of the correspondence between storage volumes of each pair in the pair group is started is stored in a memory provided in the storage device controller in step of starting resetting of the correspondence between storage volumes of each pair in the pair group; and

wherein the step of deciding whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus is actually a step of comparing a time stored in the memory with a time on which the input/output request is issued, thereby deciding whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus.

5. A storage device controller connected to a storage device provided with a plurality of storage volumes for storing data respectively and an information processing apparatus for requesting an input/output of the data;

wherein the controller comprises:

means for bringing one (primary) of the plurality of storage volumes into correspondence with another (secondary) in which a copy of data is to be written when the data is written in the primary volume so as to form a pair group consisting of a plurality of pairs, each having such a primary volume and such a secondary volume;

means for starting resetting of the correspondence between storage volumes of each pair in the pair group;

means for deciding whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus; and

means for executing the input/output processing after resetting the correspondence when the input/output request is issued from the information processing apparatus after resetting of the correspondence is started.

6. A controller according to claim 5;

wherein the means for executing the input/output processing after resetting the correspondence when the input/output request is issued from the information processing apparatus after resetting of the correspondence is started is actually means for deciding whether or not the input/output request is addressed to a storage volume of which correspondence to another is not reset yet when the input/output request is issued from the information processing apparatus after resetting of the correspondence is started, thereby executing the input/output processing after resetting the correspondence when the request is addressed to the storage volume of which correspondence to another is not reset yet.

7. A controller according to claim 5;

wherein the controller further includes:

a memory; and

means for storing identification information for denoting that resetting of correspondence between storage volumes of each pair in the pair group is started in the memory;

wherein the means for deciding whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus is actually means for referring to the identification information to decide whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus according to the content of the identification information.

8. A storage device controller according to claim 5;

wherein the controller further includes:

a memory; and

means for storing a time on which resetting of the correspondence between storage volumes of each pair in the pair group is started in the memory;

wherein the means for deciding whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus is actually means for comparing the time stored in the memory with the input/output request issued time described in the input/output request to decide whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus.

9. A computer-readable medium containing a computer software program used in a storage device controller connected to a storage device provided with a plurality of storage volumes for storing data respectively and an information processing apparatus for requesting an input/output of the data so as to receive the input/output request from the information processing apparatus and execute an input/output processing of the data for each of the plurality of storage volumes;

wherein the program comprising:

a code of bringing one (primary) of the plurality of storage volumes into correspondence with another (secondary) in which a copy of data is to be written when the data is written in the primary storage volume and forming a pair group consisting of a plurality of pairs, each having such a primary volume and such a secondary volume;

a code of starting resetting of the correspondence between storage volumes of each pair in the pair group;

a code of deciding whether or not it is after resetting of the correspondence is started- that the input/output request is issued from the information processing apparatus; and

a code of executing the input/output processing after resetting the correspondence when the input/output request is issued from the information processing apparatus after resetting of the correspondence is started.

10. A computer-readable medium according to claim 9;

wherein the code of executing the input/output processing after resetting the correspondence when the input/output request is issued from the information processing apparatus after resetting of the correspondence is started is actually a code of deciding whether or not the input/output request is addressed to a storage volume of which correspondence to another is not reset yet when the input/output request is issued from the information processing apparatus after resetting of the correspondence is started and executing the input/output processing after resetting the correspondence when the input/output request is addressed to a storage volume of which correspondence to another is not reset yet.

11. A computer-readable medium according to claim 9;

wherein the code of starting resetting of the correspondence between storage volumes of each pair in the pair group enables identification information for denoting resetting of the correspondence is started to be stored in the memory provided in the storage device controller; and

wherein the code of deciding whether or nor it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus is actually a code of referring to the identification information to decode whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus according to the content of the identification information.

12. A computer-readable medium according to claim 9;

wherein the code of starting resetting of the correspondence between storage volumes of each pair in the pair group, as well as storing a time on which resetting of the correspondence is started in the memory provided in the storage device controller so as to decide whether or it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus is actually a code of comparing the time stored in the memory with the input/output request issued time described in the input/output request, thereby deciding whether or not it is after resetting of the correspondence is started that the input/output request is issued from the information processing apparatus.